

For information on becoming a Computer Software Engineer-Systems, see [Sources of additional information](#) within this brochure.

For information on youth employment opportunities, contact a career counselor at your high school or employment counselor or job and information center coordinator at your local NH Employment Security Office.

Berlin (752-5500)

[151 Pleasant St., PO Box 159, 03570-0159](#)

Claremont (543-3111)

[404 Washington St., PO Box 180, 03743-0180](#)

Concord (228-4100)

[10 West St., PO Box 1140, 03302 - 1140](#)

Conway (447-5924)

[518 White Mountain Highway, 03818-4205](#)

Keene (352-1904)

[109 Key Rd., 03431-3926](#)

Laconia (524-3960)

[426 Union Ave., PO Box 760, 03246-2894](#)

Lebanon (448-6340)

[85 Mechanic St., Ste.4, 03766-1506](#)

Littleton (444-2971)

[646 Union St., Ste.100, 03561-5314](#)

Manchester (627-7841)

[300 Hanover St., 03104-4957](#)

Nashua (882-5177)

[6 Townsend St., 03060-3285](#)

Portsmouth (436-3702)

[2000 Lafayette Rd., 03801-5673](#)

Salem (893-9185)

[29 South Broadway, 03029-3026](#)

Somersworth (742-3600)

[243 Rt.108, 03878-1512](#)

NHCRN
New Hampshire Career Resource Network
Employment SECURITY Rick Ricker (603) 229-4489 LLM48
www.nhes.state.nh.us/elmi/nhcrn/index.htm

**SO, You want
to be a...**

*Projected among the fastest growing
occupations. (NH Employment Projections, 2002-2012)*

Information Technology **Computer Software Engineer (Systems)**



New Hampshire

**Here are
a few things
you should know.**

You'll want to know a few things about this career.

Avg Hrly Wage:

\$40.20

Expected

GrowthRate*:

48%

Avg

AnnOpenings:

43

Training/Educ Needed:

Bachelor's Degree or Military Training

Continuing education needed to stay abreast of technological advances.

See Computer Engineer Programs available in NH at

www.nhes.state.nh.us, (NHetwork)

Basic Skills: Reading, listening, writing, speaking, math, science.

Job Skills: Problem-solving, analytical, communication, project management. (OOH) (Also: Operations analysis, mathematics, science, information organization, programming, troubleshooting, active learning.)

www.onetcenter.org

SO, You want to be a...

Computer Software Engineer(systems)

Projected among the top ten fastest growing occupations. (NH Employment Projections, 2002-2012)

TASKS

1. Analyzes software requirements to determine feasibility of design within time/cost constraints.
2. Analyzes information to determine, recommend, and plan layout for type of computers and peripheral equipment modifications to existing systems.
3. Consults with engineering staff to evaluate interface between hardware and software and operational and performance requirements of overall system.
4. Evaluates factors such as reporting formats required, cost constraints, and need for security restrictions to determine hardware configuration.
5. Formulates and designs software system, using scientific analysis and mathematical models to predict and measure outcome and consequences of design.
6. Confers with data processing and project managers to obtain information on limitations and capabilities.
7. Develops and directs software system testing procedures, programming, and documentation.
8. Coordinates installation of software system.
9. Monitors functioning of equip. to ensure system operates in conformance with specifications.
10. Consults with customer concerning maintenance of software system.
11. Specifies power supply requirements and configuration.
12. Enters data into computer terminal to store, retrieve, and manipulate data for analysis of system capabilities and requirements.
13. Recommends purchase of equipment to control dust, temperature, and humidity.
14. Trains users to use new or modified equipment.

Data similar to other occupations within O*Net. Specific information to be gathered in the future. www.onetcenter.org

*(Over a ten-year period according to NH Employment Projections, 2002-2012)

Sources: NH Employment Projections, 2002-2012; Occupational Outlook Handbook, 2004-2005; Bureau of Labor Statistics Guide to Industries; www.onetcenter.org

Interests
(Holland Code):

RIC

(Realistic, Investigative, Conventional)

Interest Area:

Information Technology

Working Condi-

tions: Generally comfortable well-lit office or computer lab.

Avg Work Week:

40hrs (could require nights & weekends to meet deadlines or solve unexpected technical problems.)

Sources of additional

info: NH Employment Security (Contact office nearest you or go online to www.nhes.state.nh.us).

Association for Computing Machinery, 1515 Broadway, New York, NY 10036 (www.acm.org).

IEEE Computer Society, 1730 Massachusetts Ave. NW, Washington, DC 20036 (www.computer.org)

National Workforce Center for Emerging Technologies, 3000 Landerholm Circle SE., Bellevue, WA 98007 (www.nwcet.org).

NHCRN
New Hampshire Career Resource Network
Employment SECURITY Rick Ricker (603) 229-4489 ELM4B
www.nhes.state.nh.us/elmi/nhcrn/index.htm